

**Table 1: July 15, 2002 - System Issues and Status**

| Activity            | Lead  | Status   |
|---------------------|-------|--|
| Processing Strategy | Geier | <p><b>As of 7/12/02</b></p> <ul style="list-style-type: none"> <li>• <b>Active processing requests in approximate order of priority:</b> <ul style="list-style-type: none"> <li>- Terra Edition2 BDS and ERBElke data products (PR 37-02 through 46-02)</li> <li>- TRMM Edition2B CRS (PR 49-02) entire data set getting reprocessed due to archive issues</li> <li>- TRMM Edition2B-TransOps SSF (PR 53-02)</li> <li>- TRMM Edition2B-TransOps CRS (PR 52-02)</li> </ul> </li> <li>• <b>Processing requests expected to be active within 3 weeks are:</b> <ul style="list-style-type: none"> <li>- Terra Edition1A SSF data products (PR 50-02 &amp; 51-02)</li> <li>- TRMM Edition2B SFC data (PR 36-02)</li> <li>- TRMM Beta3 FSW for Apr'98 and Feb'98 (PR 28-02)</li> <li>- Edition1 GGEO for Jan - Aug 1998 and March 2000</li> <li>- TRMM Beta5 SRBAVG</li> </ul> </li> <li>• <b>Cancelled Processing Requests</b> <ul style="list-style-type: none"> <li>- Terra Beta4 SSF for Jan'01. Originally scheduled to determine processing rate.<br/>Cancelled due to resource issues and anticipated arrival of Edition1A processing.</li> </ul> </li> <li>• <b>Issued processing requests which have been placed on hold:</b> <ul style="list-style-type: none"> <li>- Standing request for Baseline1 BDS, ERBElke. Continue processing Edition1 until all BDS &amp; ERBElke data has been reprocessed as Edition2 and Science is happy with it. Only then will Edition1 be replaced by Baseline1.</li> </ul> </li> </ul> |

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|----------|-------|--|
| CM       | Ayers | <ul style="list-style-type: none"><li>• See Table 2 for SCCR activity since the last DMT meeting. SCCRs for Subsystems 1-4 that need to be reviewed follow Table 2. (Ayers)</li><li>• Tested the following deliveries and released them to the ASDC: Instrument (SCCR 370), CERESlib (SCCR 375), TISA Averaging (SCCR 368), ERBE-like (SCCR 369), and Clouds (SCCR 376). (Ayers)</li><li>• Delivered the updated spectral response function files for Terra FM2 for 03/01/00-02/28/01 to the ASDC. (Ayers)</li><li>• Modified the SCCR web development software to add Mike Little's name to automated SCCR email, to allow comments when approving or disapproving SCCRs, to add a separate status field on amended SCCRs, to add a current status field to the SCCRs to display the status of the latest update, and to correct a link to the Administration Home page. (Franklin)</li><li>• Initiated the following changes to the SCCR web software: (1) add a new field to the SCCR form for PGEs that will be affected, (2) make all fields mandatory, and (3) fix a problem with closing out CERESlib SCCRs. (Franklin)</li></ul> |

**Table 2: SCCR Activity June 28 at 3:00pm - July 15 at 12:30pm**

| <b>SCCR</b> | <b>S</b> | <b>U</b> | <b>A</b> | <b>C</b> | <b>D</b> | <b>SS</b> | <b>Page No.</b> | <b>Comments</b>          |
|-------------|----------|----------|----------|----------|----------|-----------|-----------------|--------------------------|
| 355         |          |          |          | X        |          | 1         |                 |                          |
| 365         |          |          |          | X        |          | 6 & 9     |                 |                          |
| 366         |          | X        |          |          |          | 11        |                 |                          |
| 367         |          |          |          | X        |          | 4.5-4.6   |                 |                          |
| 368         |          |          |          | X        |          | 10        |                 |                          |
| 369         |          |          | X        |          |          | 2 & 3     |                 |                          |
| 370         |          | X        | X        | X        |          | 1         | 4               |                          |
| 371         | X        |          | X        | X        |          | 2 & 3     | 6               |                          |
| 372         | X        | X        |          |          | X        | 9         |                 |                          |
| 373         | X        | X        |          |          | X        | 6         |                 |                          |
| 374         | X        |          |          |          |          | 6 & 9     |                 |                          |
| 375         | X        |          |          | X        |          | CERESlib  |                 | ERBE-like modifications. |
| 376         | X        |          | X        |          |          | 4.1 - 4.4 | 7               |                          |

**S**=Submitted; **U**=Updated; **A**=Approved; **C**=Closed; **D**=Disapproved; **SS**=Subsystem

## CERES Software Configuration Change Request Submittal

Subsystem: Instrument

SCCR Date: 06/27/2002

SCCR Number: 370

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Update Aqua PGE CER1.1P5 ASCII input file script to use new ephemeris and attitude filenames

Reason for Change (non-Science):

A change was made to the Aqua Ephemeris and Attitude filenames and the existing script will not work correctly for data after 6/24/2002. At this time, data on 6/25/2002 is half old filenames and half new filenames, the script does not handle this case.

Est. Time to Complete Changes: 1 day

Planned Delivery Date : June 28, 2002

Impact : Aqua Data after 6/25/2002 can be processed

Date: 06/27/2002

Status: SUBMITTED

Originator: COOPER, DENISE L. (SAIC)

### =====

#### ADDITIONAL CHANGES TO SCCR NO. 370:

### =====

Description of Change (Science):

N/A

Reason for Change (Science):

N/A

Description of Change (non-Science):

Update to CER1.1P5 ASCII input file generator the change will allow for mixed filenames convention for Aqua.

Update CER1.1P3 ASCII input file generator to allow Terra to be able to use the new eph/att file-naming convention. The filenames for Terra have not yet changed, but it is expected.

Update CER1.2P1 ASCII input file generator to allow for Aqua and Terra new filenames convention for eph/att data files.

Update CER1.3P3 ASCII input file generator to allow for Aqua and Terra new filenaming convention for eph/att data files.

Reason for Change (non-Science):

A new filenaming convention for ephemeris and attitude data for Terra is expected. It has already been put in place for Aqua. All ASCII input file generators for PGEs which use eph/att data files need to be updated. This includes CER1.1P3, CER1.1P5, CER1.2P1, CER1.3P3.

Est. Time to Complete Changes: 1 day

Planned Delivery Date : July 1, 2002

Impact : Production of Aqua data after 6/24/2002 can resume

Date & Time: 2002-07-01 12:38:01

Originator: COOPER, DENISE L. (SAIC)

## **CERES Software Configuration Change Request Submittal**

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Subsystem: ERBEl like                      SCCR Date & TIME: 2002-07-01 10:00:48                      SCCR No.: 371

\*\*\* All changes described in this SCCR were made in CERESlib. \*\*\*

### **Description of Change (Science):**

Initial delivery of the Spectral Response and Correction Coefficient files to support Aqua FM3 and FM4 processing.

Files: ceres\_SI\_FM3\_day.20020624, ceres\_SI\_FM3\_night.20020624  
ceres\_SI\_FM4\_day.20020624, ceres\_SI\_FM4\_night.20020624

### **Reason for Change (Science):**

Support Aqua FM3 and FM4 processing.

### **Description of Change (non-Science):**

N/A

### **Reason for Change (non-Science):**

N/A

Est. Time to Complete Changes: 1 day

Planned Delivery Date : July 1, 2002

Impact : Can begin processing Aqua data

Originator: KIZER, EDWARD A. (SAIC)

## CERES Software Configuration Change Request Submittal

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Subsystem: Clouds

SCCR Date & TIME: 2002-07-10 16:53:05

SCCR No.: 376

Description of Change (Science):

None

Reason for Change (Science):

N/A

Description of Change (non-Science):

PGE CER4.1-4.2P2

(1) Current PCF file contains next day output files. ASDC requested to add the day after next output files.

(2) Current PGE produces next day output files and the day after next output files. The script was modified to add a check that both days will have to be in the same month. If not, then the day after next output files will not be produced.

(3) The clean up script was modified to also remove the day after next output files as well as the next day output files.

Reason for Change (non-Science):

PGE CER4.1-4.2P2

(1) ASDC requested.

(2) It's needed for ASDC processing when there are odd number days in the processing month.

(3) It's needed for ASDC testing.

Est. Time to Complete Changes: 1 day

Planned Delivery Date : July 12, 2002

Impact : Clouds

Originator: SUN-MACK, SUNNY (SAIC)

**Table 3: July 15, 2002 - Subsystem Status**

| SS No. | SS Lead             | Status  | Problems |
|--------|---------------------|---|----------|
| 1.0    | Cooper/<br>Escuadra | <ul style="list-style-type: none"><li>Continued updating programs at the SCF which use the Aqua ephemeris and attitude data to use the new filenaming convention. (Cooper)</li><li>Continued work on getting the necessary information for the CRYSTAL-FACE experiment. A problem with the information for Aqua was discovered and fixed. (Hess, Szewczyk)</li><li>Presented a paper on the CERES Terra gain drift and the corrections being made to correct the problem at the SPIE conference in Seattle. (Spence)</li><li>Updated the Direct Comparison for CERES to include different cloud types as requested by Bruce Wielicki. Reprocessed all existing Edition1 and SCF produced Edition2 data through the updated software. (Spence)</li><li>Continued work to consolidate all of the HDF routines used for all the SS1 PGEs into one set of routines that will be used by all PGEs. (Escuadra)</li><li>Continued tracking Terra and Aqua data receipt. (Cooper)</li></ul> |          |



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| SS No. | SS Lead  | Status  | Problems |
|--------|----------|---|----------|
| 2.0    | Kizer    | <ul style="list-style-type: none"> <li>• Supplied Anand Inamdar, SCRIPTS. with IDL code to read the Earth Sun Distance Vdata in the SSF HDF file Vdata Header. (Kizer)</li> <li>• Generated July 3-10, 2002 Terra-FM2 ES-8s in support of the Crystal-Face project. (Kizer)</li> <li>• Received March 2000 thru February 2001 Spectral Response Functions from Kory Preistly to process Terra-FM2 Edition2. Files were converted and delivered to CERES CM on July 12, 2002. (Kizer)</li> <li>• Began updating ES-8 IDL plotting software to read all Vdata parameters, to include the new Spectral Response Functions. (Kizer)</li> <li>• Continued study of sunglints in Terra FM1 and FM2 data. Generated software to generate a sunglint scans file similar to the ES8N file. (Walikainen, Kizer)</li> <li>• Continuing to examine the production email generated by the QC checker software. (Walikainen)</li> <li>• Continuing to inspect ERBE-like Terra and TRMM output plots and QC reports on the Web. (Walikainen, Kizer)</li> </ul> |          |
| 3.0    | Kizer    | Combined with above.  |          |
| 4.1    | Sun-Mack | <ul style="list-style-type: none"> <li>• Processing CloudVis images for VIRS-Edition2 for Region9(Bermuda) for 1998 -1999 and images for MODIS Beta4 for the November 2000 for ARM sites Oklahoma and Alaska (R.Brown).</li> <li>• Processed MODIS Beta4 QC plots and statistics for December 2000 and June 2001 (R.Brown).</li> <li>• Worked on Terra Edition1 delta delivery (R.Brown, Sun-Mack).</li> <li>• Implemented 8.5 um emissivity calculations into the production code (Sun-Mack).</li> <li>• Processed 1 year of TRMM-VIRS-Edition2 hourly QC data for diurnal cloud properties studies (Sun-Mack).</li> <li>• Preparing for TRMM conference (Sun-Mack).</li> </ul>  |          |

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|--------|----------|---|----------|
| 4.2    | Sun-Mack | Combined with above.  |          |
| 4.3    | Sun-Mack | Combined with above.  |          |
| 4.4    | Miller   | <ul style="list-style-type: none"> <li>Investigated differences between the Clouds QC gridded report, SSF gridded data, and FSW for April 1998. The heights in the FSW and from SSF are higher than the clouds QC report. It is not understood, but could be a sampling issue. (Miller)</li> <li>Migrated files from mass store to disk or removed those no longer needed. Waiting for them to be transferred to tape archive to continue. (Miller)</li> <li>Monitored Terra production. (Miller)</li> <li>Updated Operator's Manual so the script to determine run status will have the necessary files. (Miller)</li> </ul> |          |
| 4.5    | Nolan    | <ul style="list-style-type: none"> <li>Completed updates to the SSF Data Products Catalog section. (Franklin)</li> <li>Removed redundant error checking for PGE4.5-6.2P2 (Hoppe).</li> <li>Added metadata for validation product (Hoppe).</li> </ul>  |          |
| 4.6    | Nolan    | Combined with above.  |          |
| 5.0    | Coleman  | <ul style="list-style-type: none"> <li>Continuing development of the Terra MODIS aerosol Pre-Processor. (Coleman, Caldwell)</li> </ul>  |          |
| 7.2    | Coleman  | Combined with above.  |          |
| 12.0   | Coleman  | <ul style="list-style-type: none"> <li>No new updates.</li> </ul>   |          |
| 7.1    | Nguyen   | <ul style="list-style-type: none"> <li>No new updates.</li> </ul>   |          |
| 8.0    | Nguyen   | <ul style="list-style-type: none"> <li>No new updates.</li> </ul>   |          |

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|--------|---------|--|----------|
| 10.0   | Nguyen  | <ul style="list-style-type: none"><li>• Delivered SS10 code to CM. (Nguyen)</li><li>• Completed reading TRMM Edition2B and provided the surface flux data to Anne Wilber and requested parameters to Shashi Gupta. (Nguyen)</li><li>• Completed reading Terra Beta4 and created ASCII formatted files of the validation sites for Anne Wilber. (Nguyen)</li><li>• Cleaning up TISA codes to delete the parts where the ERBE directional models were used. Preparing to run the whole month with the new GGEO. (Nguyen)</li><li>• Testing SW TOA directional models with direct integration test. (Boghosian)</li></ul> |          |
| 6.0    | Raju    | <ul style="list-style-type: none"><li>• Modified PCF templates to include ancillary Directional Model files. Modified cloud parameter averaging process and verified the results. (Raju)</li><li>• Delivered Subsystem for SCCR-374 on July 15, 2002. (Raju)</li></ul>   |          |
| 9.0    | Raju    | <ul style="list-style-type: none"><li>• Ran the process with the modifications to the cloud parameter processing code. Verified the results with TISA science members. (Raju)</li><li>• Delivered Subsystem for SCCR-374 on July 15, 2002. (Raju)</li><li>• Removed files from mass store those no longer needed. (Raju).</li></ul>  |          |

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|--------------------------|---------|--|----------|
| 11.0                     | Stassi  | <ul style="list-style-type: none"><li>Investigated a problem with the GGEO/Clouds interface which caused overcast regions to be labelled as clear sky on the GGEO file. Subsystems do not use standardized logic ids for metadata parameters on the PCF, and this caused a disconnect in the GGEO/Clouds interface when the Clouds code accessed the metadata month parameter by a logic id different from what is used on the GGEO PCF. The problem was remedied by adding more parameters to the GGEO PCF. (Sun-Mack, Stassi)</li><li>The GGEO test suites were modified to remove zero-length outputs after the tests for PGEs CER11.3P1 and CER11.4P1. A script was written to modify the second-pass main processor PCFs to use a default set of recalibration coefficients rather than the set in the ancillary data subdirectory. The Test Plan document was updated to include these changes. (Stassi)</li></ul> |          |
| CERESlib<br>Stassi/Ayers |         | <ul style="list-style-type: none"><li>Made delta delivery of Spectral Response and Correction Coefficient files in CERESlib. (Stassi)</li></ul>  |          |